QESA &

| ENGINEERING CHANGE PROPOSAL (ECP), PAGE 1 | | | | 1. DATE (YYMMOD) 040628 | | Porm Approved OMB No. 0704-0188 | | | | | |
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| Public reporting lundom for this collection of information is estimated to average 2 hours par response, including the time for reviewing instructions, essenting debt is assessed, and completing and envisating the collection of information. Seed convertis reporting this burden collection or any other aspect of this collection of information, including Department of Delanea, Washington Headquarters Services, Directorals for Information Operations and Reports, 1215_Informon Davis Highway, Subs 1204, Artifegion, VA 22264 and Subject Preparator Reduction Project (2014-1589) Washington, DC 20053. The Contract of Contract | | | | | | | | URING VITY NO 4G20 | . | | |
| PLEASE DO NOT RETURN YOUR COMPLETED FORM TO EITHER OF THESE ADDRESSES, RETURN COMPLETED FORM TO THE GOVERNMENT SUING CONTRACTING OFFICER FOR THE CONTRACT/PROCURING ACTIVITY NUMBER LISTED IN ITEM 2 OF THIS FORM. | | | | | 3. DODAAC | | | | | | |
| 4. ORIGINATOR | | b. ADDRESS (Street, City, Str | - | de) | | 5. CLA | SS OF ECP | | | | |
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| Last) Michael J. Ber | Michael J. Berry DICATINNY, NJ 07806 | | | | | | D R | | | | |
| 8. ECP DESIGNATION | | | | | | 9. BASELINE AFFECTED FUNCTIONAL X PRO | | PRODU | ICT | - 1 | |
| a. MODEL/TYPE | b. CAGE CODE 19200 | c. SYSTEM DESIGNATION FUNCTIONAL M67 Fragmentation Hand Grenade ALLOCATED | | | لــــــا | PRODU | ,,, | | | | |
| M67 M69 | 19200 | M69 Practice Hand G | | | | | | | | | |
| d. ECP NO. | | | a. TYP | E | f. REV | 10. OT | O. OTHER SYS JCONFIG. ITEMS AFFECTED | | Ð | | |
| R04G2004 | | | | | 12. DRAWINGS A | EFECTER | YES | X | NO | | |
| 11. SPECIFICATIONS AF | CAGE Code | Specification/Document No. | Rev. | NOR | CAGE Code | T LOTE | Number | | T | Rev. | NOR |
| a. SYSTEM | 4.45.440 | | | | | | | | | | |
| b. DEVELOPMENT | | | | | | | | | | | |
| c. PRODUCT | 19200 | DTL8822131 DTL9235:2 C | Org Org | 001 002 | | | | | | | |
| 13. TITLE OF CHANGE | | | | | | | | | | | 1 |
| Update TDP | | | 140.00 | | | ACCIDE | | | | | |
| 14. CONTRACT NO. LINE | ITEM | | | ROCURING CONTRACTING OFFICER ME (First, Middle Initial, Lest) Susan Phares | | | | | \neg | | |
| | | | b. CO | | , MICHO BADOL LOS | | c. TELEPHONE NO | . 309-7 | 82-101 | 19 | |
| 16. CONFIGURATION IT | EM NOMENCLATUR | | 10.00. | - | | | | 17. IN P | RODUC | TION | |
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| 18. ALL LOWER LEVEL | ITEMS AFFECTED | | | - 1 | b. PART NO. | | c. NSN | | | | |
| a. NOMENCLATURE Fuze, Hand Grenade, M213 Parts For, Loading, Assembling And | | | | | | | | | | | |
| Fuze, Hand Grena | de, M213 Parts F | or, Loading, Assembling A | ınd Pack | ing | | | 1330-00-182- | 3570 | | | l |
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| THIS REVISION DESCRIBED BELOW HAS BEEN A | | | | | | | |
| Public reporting funders for this collection of information is estimated to several gathering and maintaining the data massless, and completing and continuing the collection of information, including engagements for molecting this bandon, to Ox Reports, 1215 Johnson David Highlery, Suite 1204, Artington, VA 22260-451 W ashington, DC 200002. | 2. PROCURING ACTIVITY NO. R04G2004 | | | | | | |
| PLEASE <u>DO NOT</u> RETURN YOUR COMPLETED FOF FORM TO THE GOVERNMENT ISSUING CONTRACT NUMBER LISTED IN ITEM 2 OF THIS FORM. | 3. DODAAC | | | | | | |
| 4. ORIGINATOR | b. ADDRESS (Street, City, State, Zip Code) CDR, TACOM/ ARDEC | | | 6, NOR NO. 001 | | | |
| a. TYPED NAME (First, Middle Initial, Last) Michael J Berry | US ARMY ARDEC, ATTN: AMSRD-AAR-QEM-B PICATINNY, NJ 07808 | | 7. CAGE CODE 19200 | a. DOCUMENT NO. DTL8822131 | | | |
| 9. TITLE OF DOCUMENT | 10. REVISION LETTER | | | 11. ECP NO. | | | |
| Fuze, Hand Grenade, M213 Parts For, Loading, | Assembling And Packing | a. CURRENT Original | b. NEW | R04G2004 | | | |
| 12. CONFIGURATION ITEM (OR SYSTEM) TO WHICH M67 Fragmentation Hand Grenade | I ECP APPLIES | | | SHEET 1 OF 5 | | | |
| 13. DESCRIPTION OF REVISION | | | | | | | |
| PAGE 1 Change from: "DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited." To: "DISTRIBUTION STATEMENT D. Distribution Authorized to the Department of Defense and U.S. DoD Contractors only, Critical Technology, December 22, 2003. Other requests shall be referred to AMSRD-AAR-QEM-B, Picatinny, New Jersey 07806-5000" PAGE 2 Add to paragraph 2.2.1 SPECIFICATIONS/ DEPARTMENT OF DEFENSE: "MIL-A-48078 Ammunition, Standard Quality Assurance Provisions, General Specification for" PAGE 4 PARAGRAPH 3.9 Change from: "see 6.8" To: "see 4.3.5" PAGE 5 Add the following paragraphs: "3.19 Critical defects material handling. An analysis of critical defect material handling shall be made in accordance with MIL-A-48078 and 4.3.3.14." Continued on next page. | | | | | | | |
| 14. THIS SECTION FOR GOVERNMENT USE ONLY a. (X one) (1) Existing document supplement | ented by this NOR may be used | în manufacture. | | | | | |
| (2) Durdend decrement must be | received before manufacturer ment shall make above revision as | urv incomborate this chance. | | | | | |
| b. ACTIVITY AUTHORIZED TO APPROVE CHANGE AMSRD-AAR-AEM-M | | | | | | | |
| d. TITLE | With Engli | le | | DATE SIGNED YYMMOD) 04 07 15 | | | |
| CCB Chairman 15. a. ACTIVITY ACCOMPLISHING REVISION U. S. ARMY, TACOMIARDEC AMSRD-AAR-QEM-M | DATE SIGNED (YYMMDD) | | | | | | |

DD Form 1695, APR 92

Previous editions are obsolete.

Statement A, Unlimited

Continuation Sheet 2 from NOR # 001 DTL8822131 Date 20040628

PAN R04G2004

X"

PAGE 7

ADD TO TABLE I THE FOLLOWING:

"3.19 Critical defects material handling

4 A X X

Delete paragraph 4.1.1 in its entirety and replace with:

"4.1.1 Responsibility for Inspection. Unless otherwise specified in the contract or purchase order, the provisions of MIL-A-48078 shall apply and are hereby made a part of this detail specification. Except as otherwise specified in the contract or purchase order, the supplier is responsible for the performance of all inspection requirements as specified herein; the supplier may use his own or any other facilities suitable for the performance of the inspection requirements specified herein, unless disapproved by the Government. In addition, the Government reserves the right to perform any of the inspections set forth in the specification where such inspections are deemed necessary to assure supplies and services conform to the prescribed requirements."

4.3.3.14

PAGE 8

Delete paragraph 4.2.2 in its entirety and replace with:

"4.2.2 <u>Inspection to be performed</u>. See MIL-A-48078 and Table II specified herein."

Delete paragraph 4.2.3 in its entirety and replace with:

"4.2.3 <u>Rejection</u>. The first article sample shall be rejected if any of the inspections/tests in Table II are not acceptable; MIL-A-48078 applies."

PAGE 10

Change from:

"7548583"

To

"12999070"

PAGE 13

Delete paragraph 4.3.1 in its entirety and replace with:

"4.3.1 Lot formation. Fuze lots shall comply with the lot formation provisions of MIL-STD-1916 and MIL-A-48078. In addition lots of fuzes shall contain:

- a. M42 percussion primers of one lot interfix number from one manufacturer.
- b. Delay composition from not more than two consecutive lots from one manufacturer.

Continuation Sheet 3 from NOR # 001 DTL8822131 Date 20040628

PAN R04G2004

- c. Detonator assemblies from not more than one manufacturer containing the following:
 - (1) RDX from not more than one lot from one manufacturer.
 - (2) Lead azide from not more than one lot from one manufacturer.
 - (3) Lead styphnate from not more than one lot from one manufacturer."

Delete paragraph 4.3.2 in its entirety and replace with:

"4.3.2 Examination. (See MIL-A-48078). Unless otherwise specified in the Conformance Inspection, sampling plans for major and minor defects shall be in accordance with MIL-STD-1916, Verification Level (VL) IV for major defects and VL II for minor defects. Critical characteristics shall be inspected 100% follow by VL VII in accordance with MIL-STD-1916. Equipment necessary for the performance of the inspections listed shall be in accordance with 4.3.4."

PAGE 21, PARAGRAPH 4.3.2.8

Change from:

"7548583"

To

"12999070"

Change from:

"7548577"

To

"12999072"

PAGE 25, PARAGRAPH 4.3.2.12

DELETE "Note: (a) See Table V for sample size and accept/reject criteria."

Change from:

"2 Safety pin withdrawal lower limit

(a)

3.8

4.3.3.5"

To:

"2 Safety pin withdrawal lower limit

100% 3.8

(a)

Gage"

PAGE 27

Add the following:

"114 Detonator function high order(b) 3.9 4.3.5"

Add to note:

"(b). see 4.3.5 for sample size and accept/reject criteria."

PAGE 36

Add the following paragraphs:

"4.3.3.14 <u>Critical defect material handling (see 3.19)</u>. The contractor shall maintain controls for all critical defects as specified in paragraph 3.2 of MIL-A-48078."

Continuation Sheet 4 from NOR # 001 DTL8822131 Date 20040628

PAN R04G2004

Delete paragraph 4.3.4 in its entirety and replace with:

"4.3.4 <u>Inspection Equipment</u>. The inspection equipment required to perform the inspection and tests prescribed in this specification is identified in the 'Paragraph Reference/ Inspection Method' column in the tables starting with paragraph 4.3.2.1, and the test method paragraphs (see 4.4). The contractor shall submit for approval inspection equipment designs in accordance with the terms of the contract (See section 6 of MIL-A-48078 and section 6.3 herein)."

Add the following paragraph:

"4.3.5 <u>Detonator function high order</u>. Prior to release for production, a sample of 50 units from each lot of detonator shall be randomly selected, assembled into the M213 fuzes assembly and function as specified in 4.4.12 using test equipment as specified in 4.3.4."

PAGE 38

Add the following paragraph:

"4.4.12 <u>Detonator function high order</u>. The output end of the detonator shall be held flush and perpendicular to a steel plate of the dimension of two (2) inches by one and one-half (1.5) inches by five-eight (.625) with the Rockwell hardness between B75 and B77. The indentation on the steel plate shall be measured and the average of the indentation of 50 sample shall be no less than 0.035 inch with no individual value less than 0.030 inches."

PAGE 40

Add to end of paragraph 6.2 Acquisition requirements:

"o. Provisions of MIL-A-48078"

Delete paragraph 6.8 in its entirety.

Change from:

"6.9 Critical defects I and II."

To:

"6.8 Critical defects I and II."

PAGE 41

Change from:

"6.10 Performance Oriented Packaging."

To:

"6.9 Performance Oriented Packaging."

Change from:

"6.11 Subject term (key word) listing."

To:

"6.10 Subject term (key word) listing."

Continuation Sheet 5 from NOR # 001 DTL8822131 Date 20040628

PAN R04G2004

PAGE 42

Change from:

"6.12 Porosity in the Fuze Body (Major Defect)"

To:

"6.11 Porosity in the Fuze Body (Major Defect)"

Change from:

"6.13 Void or Crack (Critical Defect)"

To:

"6.12 Void or Crack (Critical Defect)"

| NOTICE OF R THIS REVISION DESCRIBED BELOW HAS BEEN AN Public reporting burden for this collection of information is estimated to ever generating the distribution of information is estimated to ever contection of information, including single-mines for reducing date burden, to Di Reports, 1210 Jefferson David Highwey, Julia 1204, Arlegton, VA 22202-43X Washington, OC 25000. PLEASE DO NOT RETURN YOUR COMPLETED FOR FORM TO THE GOVERNMENT ISSUING CONTRACT NUMBER LISTED IN ITEM 2 OF THIS FORM. 4. ORIGINATOR 2. TYPED NAME (First, Middle Initial, Last) Michael J Berry | Form Approved OMB No. 0704-0188 2. PROCURING ACTIVITY NO. R04G2004 3. DODAAC 6. NOR NO. 002 8. DOCUMENT NO. DTL9235210 | | | | | |
|--|--|--|--|--------------------|--|--|
| 9. TITLE OF DOCUMENT | the And | 10. REVISION LETTER | b. NEW | 11. ECP NO. | | |
| Fuze, Hand Grenade, Practice: M228 Parts For, I Packing | Loading, Assembling And | a: CURRENT Original | D. NEVY | R04G2004 | | |
| 12. CONFIGURATION ITEM (OR SYSTEM) TO WHICH M69 Practice Fragmentation Hand Grenade | ECP APPLIES | | | SHEET 1 OF 3 | | |
| in Contract description for | ented by this NOR may be used received before manufacturer ment shall make above revision as FOR GOVERNMENT | in manufacture. ay incorporate this change. di furnish revised document. C. TYPED NAME (First, Mi Gregory G. Papatrefon | Defense and U AMSRD-AAR- Specification fo andling shall be | made in accordance | | |
| CCB Chairman | Marto To | yalisk | 0 | (YMM00) 040715 | | |
| 15. a. ACTIVITY ACCOMPLISHING REVISION U. S. ARMY, TACOM/ARDEC AMSRD-AAR-QEM-B D. REVISION COMPLETED (Signature) C. DATE SIGNED (YYMMOO) | | | | | | |

Continuation Sheet 2 from NOR # 002 DTL9235210

Date 20040628

PAN R04G2004

PAGE 7

ADD TO TABLE I THE FOLLOWING:

X

В X X"

"3.19 Critical defects material handling

4.3.3.15

Delete paragraph 4.1. in its entirety and replace with:

"4.1.1 Responsibility for Inspection. Unless otherwise specified in the contract or purchase order, the provisions of MIL-A-48078 shall apply and are hereby made a part of this detail specification. Except as otherwise specified in the contract or purchase order, the supplier is responsible for the performance of all inspection requirements as specified herein; the supplier may use his own or any other facilities suitable for the performance of the inspection requirements specified herein, unless disapproved by the Government. In addition, the Government reserves the right to perform any of the inspections set forth in the specification where such inspections are deemed necessary to assure supplies and services conform to the prescribed requirements."

PAGE 8

Delete paragraph 4.2.2 in its entirety and replace with:

"4.2.2 Inspection to be performed. See MIL-A-48078 and Table II specified herein."

Delete paragraph 4.2.3 in its entirety and replace with:

"4.2.3 Rejection. The first article sample shall be rejected if any of the inspections/tests in Table II are not acceptable; MIL-A-48078 applies."

PAGE 10

Change from:

"7548583"

To

"12999070"

PAGE 13

Delete paragraph 4.3.1 in its entirety and replace with:"

"4.3.1 Lot formation. Fuze lots shall comply with the lot formation provisions of MIL-STD-1916 and MIL-A-48078. In addition lots of fuzes shall contain:

- a. M42 percussion primers of one lot interfix number from one manufacturer.
- b. Delay composition from not more than two consecutive lots from one manufacturer.
 - c. Black powder of one lot number from one manufacture."

Continuation Sheet 3 from NOR # 002 DTL9235210

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Delete paragraph 4.3.2 in its entirety and replace with:

"4.3.2 Examination. (See MIL-A-48078). Unless otherwise specified in the Conformance Inspection, sampling plans for major and minor defects shall be in accordance with MIL-STD-1916, Verification Level (VL) IV for major defects and VL II for minor defects. Critical characteristics shall be inspected 100% follow by VL VII in accordance with MIL-STD-1916. Equipment necessary for the performance of the inspections listed shall be in accordance with 4.3.4."

PAGE 21, PARAGRAPH 4.3.2.8

Change from:

"7548583"

To

"12999070"

Change from:

"7548577"

To

"12999072"

PAGE 25, PARAGRAPH 4.3.2.12

DELETE "Note: (a) See Table V for sample size and accept/reject criteria."

Change from:

Safety pin withdrawal lower limit "2

(a)

(a)

4.3.3.5" 3.8

To:

Safety pin withdrawal lower limit "2

Gage" 100% 3.8

PAGE 36

Add the following paragraph:

"4.3.3.15 Critical defect material handling (see 3.19). The contractor shall maintain controls for all critical defects as specified in paragraph 3.2 of MIL-A-48078."

Delete paragraph 4.3.4 in its entirety and replace with:

"4.3.4 Inspection Equipment. The inspection equipment required to perform the inspection and tests prescribed in this specification is identified in the 'Paragraph Reference/Inspection Method' column in the tables starting with paragraph 4.3.2.1, and the test method paragraphs (see 4.4). The contractor shall submit for approval inspection equipment designs in accordance with the terms of the contract (See section 6 of MIL-A-48078 and section 6.3 herein)."

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Add to end of paragraph 6.2 Acquisition requirements:

"o. Provisions of MIL-A-48078"